

CLAIMS

What is claimed is:

1. A method for distributing information, the method comprising:
identifying one or more of a plurality of nodes to acknowledge a multicast
5 message; and
sending the multicast message to the plurality of nodes, the multicast message
including an indication of said one or more of the plurality of nodes to acknowledge the
message.
2. The method of claim 1, wherein the multicast message includes an indication of
10 whether to immediately acknowledge or delay acknowledgement of the multicast
message.
3. The method of claim 2, comprising setting the indication of whether to
immediately acknowledge or delay acknowledgement to indicate immediate
acknowledgment if the multicast message is the first message of a messaging window.
- 15 4. The method of claim 3, comprising setting the indication of whether to
immediately acknowledge or delay acknowledgement to indicate delayed
acknowledgment if the multicast message is not the first message of the messaging
window.
5. The method of claim 1, wherein the indication of said one or more of the
20 plurality of nodes to acknowledge the message indicates less than all of the plurality of
nodes.
6. The method of claim 1, comprising receiving an acknowledgment message
corresponding to the multicast message, and in response, identifying the multicast
message and all previously sent messages as being acknowledged.

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7. A method performed by a node, the method comprising:
receiving a multicast message, the multicast message including an indication of at least one designated acknowledgement node;

identifying that the indication of at least one designated acknowledgement node
5 includes the node, and in response sending an acknowledgement message to the sender of the multicast message.

8. The method of claim 7, wherein the acknowledgment message acknowledges at least one other message than the multicast message.

10 9. The method of claim 7, wherein the multicast message includes an indication whether to immediately acknowledge or delay acknowledgement of the multicast message.

10. The method of claim 9, wherein the indication whether to immediately acknowledge or delay acknowledgement of the multicast message corresponds to delay
15 acknowledgement; and the method comprises delaying said sending the acknowledgment message.

11. A method for communicating information, the method comprising:
receiving a multicast message, the multicast message including an indication of whether or not to delay acknowledgement of the multicast message; and
20 delaying acknowledgment of the multicast message in response the indication identifying to delay acknowledgement of the multicast message.

12. An apparatus for communicating information, the apparatus comprising:
means for receiving a message, the message including an indication of whether or not to delay acknowledgement of the message; and
25 means for delaying acknowledgment of the message in response the indication identifying to delay acknowledgement of the message.

13. An apparatus for distributing information, the apparatus comprising:
means for identifying one or more of a plurality of nodes to acknowledge a
multicast message; and

5 means for sending the multicast message to the plurality of nodes, the multicast
message including an indication of said one or more of the plurality of nodes to
acknowledge the message.

14. The apparatus of claim 13, wherein the multicast message includes an
indication of whether to immediately acknowledge or delay acknowledgement of the
multicast message.

10 15. The apparatus of claim 14, comprising means for setting the indication of
whether to immediately acknowledge or delay acknowledgement to indicate immediate
acknowledgment if the multicast message is the first message of a messaging window.

15 16. The apparatus of claim 15, comprising means for setting the indication of
whether to immediately acknowledge or delay acknowledgement to indicate delayed
acknowledgment if the multicast message is not the first message of the messaging
window.

17. The apparatus of claim 13, wherein the indication of said one or more of the
plurality of nodes to acknowledge the message indicates less than all of the plurality of
nodes.

20 18. The apparatus of claim 13, comprising means for receiving an
acknowledgment message corresponding to the multicast message, and in response,
identifying the multicast message and all previously sent messages as being
acknowledged.

19. An apparatus performed by a node, the apparatus comprising:
means for receiving a multicast message, the multicast message including an
indication of at least one designated acknowledgement node;

5 means for identifying that the indication of at least one designated
acknowledgement node includes the node, and in response sending an acknowledgement
message to the sender of the multicast message.

20. The apparatus of claim 19, wherein the acknowledgment message
acknowledges at least one other message than the multicast message.

10 21. The apparatus of claim 19, wherein the multicast message includes an
indication whether to immediately acknowledge or delay acknowledgement of the
multicast message.

22. The apparatus of claim 21, wherein the indication whether to immediately
acknowledge or delay acknowledgement of the multicast message corresponds to delay
15 acknowledgement; and the apparatus comprises means for delaying said sending the
acknowledgment message.

23. A computer-readable medium containing computer-executable instructions for
performing steps for distributing information, said steps comprising:

20 identifying one or more of a plurality of nodes to acknowledge a multicast
message; and

sending the multicast message to the plurality of nodes, the multicast message
including an indication of said one or more of the plurality of nodes to acknowledge the
message.

24. The computer-readable medium of claim 23, wherein the multicast message
25 includes an indication of whether to immediately acknowledge or delay
acknowledgement of the multicast message.

25. The computer-readable medium of claim 24, comprising setting the indication of whether to immediately acknowledge or delay acknowledgement to indicate immediate acknowledgment if the multicast message is the first message of a messaging window.

5 26. The computer-readable medium of claim 25, comprising setting the indication of whether to immediately acknowledge or delay acknowledgement to indicate delayed acknowledgment if the multicast message is not the first message of the messaging window.

10 27. The computer-readable medium of claim 23, wherein the indication of said one or more of the plurality of nodes to acknowledge the message indicates less than all of the plurality of nodes.

15 28. The computer-readable medium of claim 23, comprising receiving an acknowledgment message corresponding to the multicast message, and in response, identifying the multicast message and all previously sent messages as being acknowledged.

29. A computer-readable medium containing computer-executable instructions for performing steps by a node, said steps comprising:

20 receiving a multicast message, the multicast message including an indication of at least one designated acknowledgement node;
identifying that the indication of at least one designated acknowledgement node includes the node, and in response sending an acknowledgement message to the sender of the multicast message.

25 30. The computer-readable medium of claim 29, wherein the acknowledgment message acknowledges at least one other message than the multicast message.

31. The computer-readable medium of claim 29, wherein the multicast message includes an indication whether to immediately acknowledge or delay acknowledgement of the multicast message.

5 32. The computer-readable medium of claim 31, wherein the indication whether to immediately acknowledge or delay acknowledgement of the multicast message corresponds to delay acknowledgement; and the method comprises delaying said sending the acknowledgment message.